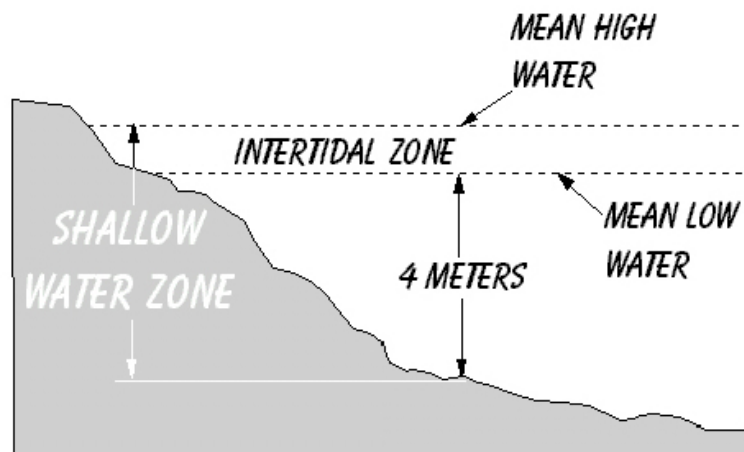




PRELIMINARY PROGRAM AND REGISTRATION

SHALLOW WATER

*... THE ZONE OF MAXIMUM INTERACTION BETWEEN
HUMAN ACTIVITIES AND BIOLOGICAL RESOURCES*



FIFTH MARINE AND ESTUARINE SHALLOW WATER SCIENCE AND MANAGEMENT CONFERENCE

General Information

The Shallow Water Conference will be held at the Holiday Inn - Boardwalk in Atlantic City, New Jersey. The purpose of this Conference is to increase dialogue and foster relationships between federal, state, and local agencies, non-governmental agencies and the private sector. We expect this Conference to be a milestone in the effort to protect shallow water zones and look forward to your contributions to achieving this purpose.

On site registration for the Conference will begin Sunday, March 12, 2000. All participants must register upon arrival to the Conference. Please complete the form on page 4 and forward with payment to the address indicated on the Conference Registration Form. To qualify for the early registration fee, participants must register and send payment by February 25, 2000. The registration fee includes and entitles the registrant to admission to oral presentations, an abstract booklet, the social events, and all breaks.

Upon arrival, participants should register, receive their room assignments, and pick up a Conference package. Formal registration periods will be as follows:

Sunday	5:00 p.m. - 8:00 p.m.
Monday	7:30 a.m. - 5:00 p.m.
Tuesday	8:00 a.m. - 5:00 p.m.
Wednesday	8:00 a.m. - 5:00 p.m.
Thursday	8:00 a.m. - 10:00 a.m.

Cancellations/Refund Policy

Cancellations must be received in writing by February 25, 2000. A \$35.00 cancellation fee will be deducted from the refund. There will be no refunds issued after February 25.

Accommodations

Accommodations are provided by the Holiday Inn - Boardwalk in Atlantic City, New Jersey. Hotel reservations for rooms must be made directly with the Holiday Inn. A Hotel Registration Form is included on page 5 for this purpose. Please register early as the number of rooms reserved is limited. Deadline for a guaranteed reservation is February 15, 2000. Hotel prices include lunch.

Conference Activities

To kick off the Conference, join us for an informal exchange among participants at Monday evening's *Welcome Reception* which will be held from 7:00 p.m. - 9:00 p.m.

The Conference will be held from 9:00 a.m. - 5:30 p.m. Monday; 9:00 a.m. - 5:15 p.m. on Tuesday; 9:00 a.m. - 5:00 p.m. on Wednesday; and 9:00 a.m. - 4:30 p.m. on Thursday.

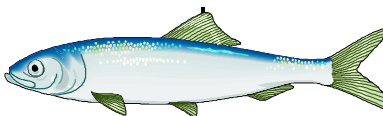
Throughout the conference, vendors will be set up in the Victoria Ballroom of the Howard Johnson Hotel.

On Tuesday evening, a *St. Patrick's Day Mixer* is planned from 7:00 p.m. - 11:00 p.m. at the Holiday Inn - Boardwalk in the Constitution Ballroom as another opportunity for informal exchange among participants. A DJ will provide entertainment and hors d'oeuvres will be served.

If you have any questions regarding the conference contact:

Ralph J. Spagnolo at (215) 814-2718 or
Frank Reilly at (540) 286-0072.

Visit the Shallow Water Habitat website at:
www.epa.gov/region03/shallow_water



Travel

By Rail: AMTRAK offers express service to Atlantic City from Philadelphia, New York and Washington, D.C. connecting the entire AMTRAK system via Philadelphia's 30th Street station, the hub of AMTRAK's northeast corridor.

By Air: Atlantic City is served by many airlines. Easy commuter connections can be made via Philadelphia International, Newark International, New York's LaGuardia and JFK International, Baltimore/Washington International and Washington National. An airport shuttle is offered from Philadelphia Airport to Atlantic City. For information, please call 1-800-774-8885.

By Land: From the North, major interstate highways connect with the Garden State Parkway South, to Atlantic City Expressway. From the South, I-95 to Delaware Memorial Bridge to Rt. 40 to Rt. 322, or via Lewes, Delaware, take Cape May-Lewes Ferry to Garden State Parkway North, to Atlantic City Expressway. From the West via Philadelphia, Walt Whitman Bridge to North-South Freeway to Atlantic City Expressway.

Attractions of Local Interest

Spanning the state from the Hudson River to the Delaware River are many sites of historic and cultural interest. For more information contact:

New Jersey Division of Travel and Tourism
CN 826
Trenton, NJ 08625
609-292-2470
www.state.nj.us

For information about Atlantic City contact:
Greater Atlantic City Convention & Visitors
Authority:

2314 Pacific Ave.
Atlantic City, NJ 08401
609-348-7100



Announcement Board

A board will be available for attendees to post jobs, fellowships, scholarships, and other related information of professional interest.

Program Overview

Understanding the Shallow Water Zone to Minimize Impacts

- | | |
|--------------|---|
| Session I: | Redevelopment of the Port of NY and NJ: New Challenges for the New Millennium |
| Session II: | The Benthic Environment - Part 1 |
| Session III: | The Benthic Environment - Part 2 |
| Session IV: | Water Quality |
| Session V: | Habitats Critical to Shallow Water Fauna |
| Session VI: | Submerged Aquatic Vegetation |

Understanding Management Strategies in the Shallow Water Zone to Minimize Impacts

- | | |
|---------------|---|
| Session VII: | Innovative Management Strategies |
| Session VIII: | Essential Fish Habitat (EFH) Areas and Fisheries Management |
| Session IX: | Improving Fish Habitat |
| Session X: | Habitat Restoration: Monitoring Success |

The Impact of Human Activities in the Shallow Water Zone

- | | |
|---------------|---|
| Session XI: | Diverse Impacts of Hurricanes on Coastal North Carolina |
| Session XII: | Breakout Session |
| Session XIII: | Impacts of Dredging |
| Session XIV: | Impacts of Dredged Material Disposal |
| Session XV: | Beneficial Human Activities and Protective Measures |
| Session XVI: | Rover Reports |

Vendors are encouraged to participate in the Conference and should call Mr. Frank Reilly at (540) 286-0072 if interested in obtaining a booth for the entire week.

A Student Award will be given out for the best student presentation. If interested in being a judge or entering your presentation, call Mr. Ralph Spagnolo at (215) 814-2718

FIFTH MARINE AND ESTUARINE SHALLOW WATER SCIENCE AND MANAGEMENT CONFERENCE

Conference Schedule

Sunday Evening, March 12

5:00 p.m. - 8:00 p.m.

Registration - Howard Johnson - Victoria Room (Foyer Area)

Monday, March 13

7:00 a.m. - 5:00 p.m.

9:00 a.m.

Registration - Howard Johnson - Victoria Ballroom (Foyer Area)

Welcome: Stanley L. Laskowski, Director

Environmental Services Division

U.S. Environmental Protection Agency, Region III

Keynote Speaker: Congressman Wayne T. Gilchrest, Maryland (Invited)

Session I: Redevelopment of the Port of NY and NJ: New Challenges for the New Millennium

9:15 a.m.

10:00 a.m.

Lunch

12:00 noon

1:30 p.m.

Session II: The Benthic Environment - Part I

2:45 p.m.

Break

3:15 p.m.

Session III: The Benthic Environment - Part II

4:15 p.m.

Session IV: Water Quality

5:30 p.m.

Adjourn

7:00 p.m. - 9:00 p.m.

Welcome Reception

Tuesday, March 14

8:00 a.m. - 5:00 p.m.

9:00 a.m.

Registration

10:45 a.m.

Session V: Habitats Critical to Shallow Water Fauna

11:15 a.m.

Break

12:15 p.m.

Session VI: Submerged Aquatic Vegetation

1:30 p.m.

Lunch

3:00 p.m.

Session VII: Innovative Management Strategies

4:00 p.m.

Break

5:15 p.m.

Session VIII: Essential Fish Habitat (EFH) Areas and Fisheries Management

Adjourn

Wednesday, March 15

8:00 a.m. - 5:00 p.m.

9:00 a.m.

Registration

10:15 a.m.

Session IX: Improving Fish Habitat

10:45 a.m.

Break

12:00 noon

Session X: Habitat Restoration: Monitoring Success

1:30 p.m.

Lunch

3:00 p.m.

Session XI: Diverse Impacts of Hurricanes on Coastal North Carolina

3:30 p.m.

Break

5:00 p.m.

Session XII: Breakout Session

Adjourn

Thursday, March 16

8:00 a.m. - 10:00 a.m.

9:00 a.m.

Registration

10:15 a.m.

Session XIII: Impacts of Dredging

10:45 a.m.

Break

11:45 a.m.

Session XIV: Impacts of Dredged Material Disposal

1:00 p.m.

Lunch

2:45 p.m.

Session XV: Beneficial Human Activities and Protective Measures

3:15 p.m.

Break

4:15 p.m.

Session XVI: Rover Reports

Closing Remarks

**FIFTH MARINE AND ESTUARINE SHALLOW WATER SCIENCE
AND MANAGEMENT CONFERENCE
CONFERENCE REGISTRATION FORM**

Last Name _____ First Name _____ M.I. _____

Company/Affiliation _____

Company Mailing or Home Address _____

City _____ State _____ Zip _____

Country (other than US) _____ Phone _____

Fax _____

Email _____

Name as you wish to appear on Conference Badge _____

Hotel Reservations must be made directly with the Holiday Inn by calling 1-800-548-3030 or using the accompanying hotel registration form (see page 5). Please register early as the number of rooms is limited.

Registration Fee includes:

Admission to Oral Presentations	Program/Abstract Booklets	Social Events	Breaks
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Registration Fees:

Early Registration Fee (Postmarked by February 25, 2000)	\$160.00
Late Registration Fee (Paid after February 25, 2000)	\$210.00
Early Student Registration Fee (Postmarked by February 25, 2000)	\$60.00
Late Student Registration Fee (Paid after February 25, 2000)	\$80.00
Early One Day Registration Fee	\$80.00
Late One Day Registration Fee	\$105.00
2 or 3 Day Registration Fee	Same as Full Week Rate
Half Day Registration Fee.	Same as Full Day Rate
Vendor Fee	\$350.00

Space is Limited - Please Register Early

Payment must accompany this registration form. Payment must be **Postmarked by** February 25, 2000 for participant to qualify for early registration rate. Cancellations must be received in writing by February 25, 2000. The cancellation fee is \$35.00. There will be no refunds after this date.

Form of payment:

Credit card: Credit card number _____ Expiration Date _____

Name exactly as it appears on the credit card _____

Check: Check number _____ Amount of check _____

*Make check payable to **The Reilly Group** and mail payment and form to:

The Reilly Group
67 Meyer Lane
Stafford, VA 22554
Phone: (540) 286-0072, Fax: (540) 286-0073
E-mail: reillygroup@msn.com

FIFTH MARINE AND ESTUARINE SHALLOW WATER SCIENCE AND MANAGEMENT CONFERENCE

March 12 - 16, 2000
Holiday Inn - Boardwalk
Atlantic City, NJ

HOTEL REGISTRATION FORM

Group Name: Shallow Water Conference

Last Name _____ First Name _____

Company or Home Mailing Address _____

City _____ State _____ Zip _____

Country _____ Phone () _____

Arrival Date _____ Departure Date _____

Name on Credit Card _____

Credit Card # _____ Exp. Date _____

Signature _____ Credit Card Company _____

Please enclose credit card number and authorization or check. Reservations guaranteed by a credit card will be accepted by Fax (609) 348-0168.

RATES

Please check the rate of accommodations desired.

Price Per Room Per Day: _____ Single: \$99.95 _____ Double: \$126.50 (\$63.25/person)

Price Includes Lunch

The reservation must be received by February 15, 2000 to ensure we are able to accommodate your room request. Each room must be guaranteed by credit card or check payable to **Holiday Inn - Boardwalk** in the amount of your room rate as checked off above. The deposit will be applied to the first night of your reservation request. Check enclosed \$ _____. Reservations must be canceled 72 hours prior to arrival to ensure advance deposit refund. Reservations may be taken by phone at 1-800-548-3030.

If you are mailing your registration, please send this form **with** check or credit card authorization to:

Holiday Inn - Boardwalk
Chelsea Ave. & Boardwalk
Atlantic City, NJ 08401

FIFTH MARINE AND ESTUARINE SHALLOW WATER SCIENCE AND MANAGEMENT CONFERENCE

Oral Presentations

Monday, March 13, 2000

Welcome:

Stanley L. Laskowski, Director
Environmental Services Division
U.S. Environmental Protection Agency, Region III

Keynote Speaker:

Congressman Wayne T. Gilchrest, Maryland
(Invited)

Understanding the Shallow Water Zone to Minimize Impacts

Session I: Redevelopment of the Port of NY and NJ: New Challenges for the Millennium

Each panelist will discuss various development, dredging, and navigation issues concerning the Port of NJ/NY.

William Ellis, Port Authority of NY/NJ
Andrew Glenn, New York City Economic
Development Corporation
Kevin Corbett, Empire State Development
Corporation
Raimo Liias, U.S. Army Corps of Engineers, New
York District
Frank McDonough, New Jersey Department of
Transportation

Session II: The Benthic Environment - Part I

Susan Metzger, Lawler, Matusky and Skelly
Engineers, *Mitigation Planning for Unvegetated
Littoral Habitat*
Olivia Hauser, University of Delaware, *Does Flow
Control Affect the Species Composition and
Physical Structure of Worm-Reef Communities in
Delaware Bay?*
Susan Metzger, Lawler, Matusky and Skelly
Engineers, *Utilization of Biological Data to Assess
Use of NY Harbor Habitats*
Philip Wirth III, University of Maryland, *Seasons
as Defined by the Nektonic Species Composition of
a Temperate Coastal Lagoonal System*

Session III: The Benthic Environment- Part II

Howard Ruben, U.S. Army Corps of Engineers,
New York District, *Biological and Physical Impacts*

*to a Beach Nourishment Borrow Site at Coney
Island, New York*

Frank Estabrooks, New York State Department of
Environmental Conservation, *NY/NJ Harbor
Sediment Quality Database*
Tara Casanova, Southern Connecticut State
University, *The Ecology of the Japanese Shore
Crab (*Hemigrapsus sanguineus* de haan) and Its
Niche Relationship To The Green Crab (*Carcinus
maenas*) Along the Coast of Connecticut, U.S.A.*

Session IV: Water Quality

V.M. Shulkin, Russian Academy of Natural
Sciences, *Trace Metal Content in Mollusks as an
Indicator of Shallow Coastal Water Contamination
in Russian Far East*

Michael Runner, United States Geological Survey,
*Water Quality Monitoring and Data Collection in
the Mississippi Sound*

John Forester, United States Naval Academy,
Triggering a Harmful Algal Bloom

Lexia Valdes, University of Delaware, *The Effect of
Manipulating Nitrogen to Phosphorous Ratios
(N:P) in Waters of the Delaware Inland Bays*

Tuesday, March 14, 2000

Session V: Habitats Critical to Shallow Water Fauna

Jorge Rosales-Casian, Centro de Investigacion
Cientifica y de Educacion Superior de Ensenada,
*Importance of Nearshore Fishes from Protected,
Semi-protected, and Exposed Environments in the
Pacific of Northern Baja California, Mexico*

Stacey Webb, University of Georgia, *Growth,
Movement, and Residence Times of Juvenile White
Shrimp (*Litopenaeus setiferus*) Within a Tidal
Marsh Landscape*

Jessica Finley, Bard College, *The Use of Emergent
Vegetation by Small Fishes in Tivoli South Bay, A
Freshwater Tidal Marsh in the Hudson River
Estuary*

Mike Weistein, New Jersey Marine Sciences
Consortium, *What's This Business with Phragmites
Anyway?*

Wade Hurt, University of Florida/Natural Resources
Conservation Service, *Florida's Mangrove
Swamps/Shallow Water Interface: A Critical Fish
and Shellfish Habitat*

Valerie Whalon, Mid-Atlantic Fishery Management
Council, *Riverine Movements of Adult American
Shad (*Alosa sapidissima*) in the Hudson River*

Session VI: Submerged Aquatic Vegetation

George Demas, Natural Resources Conservation Service, *Status of Subaqueous Soil Survey Projects in the Mid-Atlantic*

Christopher Spaur, U.S. Army Corps of Engineers, Baltimore District, *SAV Physical Disturbance Regulatory "Needs" Revisited*

Daniel Small, U.S. Army Corps of Engineers, Baltimore District, *Environmental Decision-making and Interagency Coordination: Evaluating Dredging Needs and SAV Protection in the Upper Chesapeake Bay*

Understanding Management Strategies in the Shallow Water Zone to Minimize Impacts

Session VII: Innovative Management Strategies

Jay Woodward, Virginia Marine Resources Commission, *Aquaculture and SAV in Shallow Water: "Can We All Just Get Along?"*

Daniel Small, U.S. Army Corps of Engineers, Baltimore District, *Human Factors in Environmental Decision-making and Interagency Coordination*

Steven Kopecky, U.S. Army Corps of Engineers, Baltimore District, *Alternative Management Strategies for Dredged Material: Corps Projects, Past, Present and Future*

Christopher Perle, North Carolina Division of Marine Fisheries, *Coastal Habitat Protection Plans: A New Tool to Conserve Shallow Water Habitats in North Carolina*

Doug Meyers, Puget Sound Water Quality Action Team, *A Sound State of the Science, Policy, and Practice to Protect Marine Nearshore Habitats*

Session VIII: Essential Fish Habitat (EFH) Areas and Fisheries Management

Management

Jon Kurland, National Marine Fisheries Service, *A National Perspective on the Conservation of EFH*

Lou Chiarello, National Marine Fisheries Service, *Implementing EFH: the First Year*

Doug Hopkins, Environmental Defense Fund, *EFH - A New England Perspective*

Tom Bigford, National Marine Fisheries Service, *Using the EFH Consultation Process to Reduce Human-Induced Impacts to Fish Habitats*

Wednesday, March 15, 2000

Session IX: Critical Fish Habitat

Joe Hightower, United States Geological Survey, *Restoration of Spawning Habitat for Striped Bass and American Shad Through Dam Removal*

Robert J. Orth, Virginia Institute of Marine Science, *Seagrasses: Critical Fisheries Habitat Under Stress, a Perspective from the Chesapeake Bay Region*

Marc Epstein, Merritt Island National Wildlife Refuge, FL, *Wetland Restoration and Enhancement: Merritt Island National Wildlife*

Session X: Habitat Restoration: Monitoring Success

John Catena, National Marine Fisheries Service, *Restoration of Tidal Flow to Two New England Salt Marshes: Preliminary Results*

Len Houston, U. S. Army Corps of Engineers, New York District, *U. S. Army Corps of Engineers' Habitat Restoration Program - Expanding Restoration Mission*

John Sacco, New Jersey Department of Environmental Protection, *New Jersey Restoration Efforts-Monitoring Succession as Well as Success*

Stephen Zahn, New York State Department of Environmental Conservation, *Applying Monitoring Requirements: Practicalities on Implementation of Regulatory Grant Programs*

The Impact of Human Activities in the Shallow Water

Session XI: Diverse Impacts of Hurricanes on Coastal NC

The combined affects of Hurricane Dennis and Hurricane Floyd caused unprecedented impacts to the environmental, social, and economic health on the North Carolina coastal plain. This panel will provide a multi-disciplinary view of the environment, people and infrastructural ramifications of the most costly storm in North Carolina History.

Bob Edwards, East Carolina University, *Sociological Impacts of Hurricanes in the Coastal Environment: A Comparison Between Hurricanes Bonnie and Floyd*

Alice Keeney, Hyde County, North Carolina, *Impacts of Hurricane Floyd on Infrastructure in Rural North Carolina - The Process of Rebuilding*

Karen Mulcahey, East Carolina University, *The Cartographic Evaluation of Shallow Water Environments in Eastern Carolina As a Result of Hurricane Floyd*

Stan Riggs, East Carolina University, *Development in the Coastal Zone: Environmental Impacts on Coastal North Carolina*

Session XII: Breakout Session

A selected panel, including representatives from various disciplines, will lead a discussion on dredging related topics. The audience will be divided into discussion groups to participate in formulating recommendations in response to questions relating to dredging policies and issues.

Thursday, March 16, 2000

Session XIII: Impacts of Dredging

William Muir, U.S. Environmental Protection Agency, *The Implications of Dredging on Fisheries*
Robert Van Dolah and Pamela Jutte, South Carolina Division of Marine Fisheries, *Sand Borrow Sites in South Carolina: A Review of Physical and Biological Effects*
Frank Reilly, The Reilly Group, *An Overview of Dredging Impacts*

Session XIV: Impacts of Dredged Material Disposal

Michael Kennish, Rutgers University, *Biotic Impacts of Dredging in New Jersey Coastal Bays*
Visty Dalal, Maryland Department of the Environment, *Hart-Miller Island Confined Disposal Facility: A Historical Perspective (Part 1)*
Robert Mason, Maryland Department of the Environment, *Hart-Miller Island Exterior Monitoring Program Biological Monitoring (Part 2)*

Session XV: Beneficial Human Activities and Protective Measures

Kerwin Cuevas, Mississippi Department of Natural Resources, *Shallow Water Artificial Reefs of Mississippi*
Ben Anderson, Delaware Department of Natural Resources and Environmental Control, *Eelgrass Restoration in a Recovering Eutrophied Estuary*
Geoffrey Wikel, Maryland Department of Natural Resources, *Assessing the Significance of Shell Dredging Operations: Upper Chesapeake Bay*
Karim Abood, Lawler, Matusky and Skelly, Engineers, LLP, *Advanced and Emerging Technologies to Control Marine Borer Damage*
Beth Valentine, Maryland Department of Natural Resources, *Maryland's Clean Marina Initiative: Marinas and Boaters Protecting Clean Water and Fresh Air*

Session XVI: Rover Reports

A panel of four “rovers” will critically review the presentations in light of their own interests and disciplines. Rovers will be selected to ensure representation of resource managers, regulators, non-governmental organizations, the regulated public, resource users and researchers. This session should be of great interest to research program leaders and those seeking funding for research since the rovers will comment on information gaps and needed scientific information; this session, then, should help focus subsequent research in the fields needed to adequately protect, manage and regulate shallow water habitats.

